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APPLICATION NO.	FII	JING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/910,457	0	7/20/2001	Shozo Imanishi	M2057-83	1740	
7278	7590	10/10/2002				
DARBY &	DARBY	P.C.	EXAMINER			
P. O. BOX 52 NEW YORK		50-5257		SELF, SHI	SELF, SHELLEY M	
				ART UNIT	PAPER NUMBER	
				3725		
				DATE MAILED: 10/10/2001	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant/a)
•			Applicant(s)
	Office Action Summary	09/910,457	IMANISHI, SHOZO
Th MAILING DATE of this communicate		Examiner	Art Unit
		Shelley Self	3725
Period fo	r Reply	pears on the cover sneet with	n tn correspondence address
THE II - Exter after - If the - If NO - Failur - Any re	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. usions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a represent of the reply is specified above, the maximum statutory period reto reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailing display the patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a repoly within the statutory minimum of thirty will apply and will expire SIX (6) MONTING CAUSE the application to become ARA	(30) days will be considered timely.  13 from the mailing date of this communication.
1)	Responsive to communication(s) filed on	<u></u> .	
2a) 🗌	This action is FINAL. 2b)⊠ TI	nis action is non-final.	
3)□ Dispositio	Since this application is in condition for allow closed in accordance with the practice under on of Claims	ance except for formal matte Ex parte Quayle, 1935 C.D.	ers, prosecution as to the merits is 11, 453 O.G. 213.
4)🖂	Claim(s) 1-18 is/are pending in the applicatio	n.	
4	4a) Of the above claim(s) is/are withdra	wn from consideration.	g gynte <b>#</b>
5)	Claim(s) is/are allowed.		
6)⊠	Claim(s) <u>1-18</u> is/are rejected.		
7)	Claim(s) is/are objected to.		
	Claim(s) are subject to restriction and/o on Papers	r election requirement.	
9)⊠ T	he specification is objected to by the Examine	e <b>r.</b>	
10)[] T	he drawing(s) filed on is/are: a)□ acce	pted or b) objected to by the	Examiner.
	Applicant may not request that any objection to the	e drawing(s) be held in abeyand	ce. See 37 CFR 1.85(a).
11) 🗌 T	he proposed drawing correction filed on		
	If approved, corrected drawings are required in re	ply to this Office action.	
12)∐ T	he oath or declaration is objected to by the Ex	aminer.	
Priority u	nder 35 U.S.C. §§ 119 and 120		
13)🛛 🖊	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 1	l19(a)-(d) or (f).
_ a)∑	All b) Some * c) None of:		
1	I.oxtimes Certified copies of the priority document	s have been received.	
2	2. Certified copies of the priority document	s have been received in App	lication No
	B. Copies of the certified copies of the prior application from the International Buse the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	· ·
	knowledgment is made of a claim for domesti		
a)	☐ The translation of the foreign language procknowledgment is made of a claim for domest	visional application has been	n received.
ttachment(			
) 🔲 Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s) <u>5</u>	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)
Patent and Trad O-326 (Rev.		tion Summary	Part of Paper No. 7

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#### **DETAILED ACTION**

## Specification

1. The disclosure is objected to because of the following informalities:

Change "fist" to -first- (clm. 6, lines 8, 16)

Change "crank shaft" to -crankshaft (clm. 5, line 2, clm. 10, line 2, clm. 16, line 2)

Change "pont" to -point- (clm 26, line 25)

Appropriate correction is required.

### Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. With regard to claim 1, line 7 renders the claim vague; it is unclear what "same location" refers to.
- 4. With regard to claim 8, a second linear guide (line 4) and a second slider (line 5) are claimed, implying that there is a first linear guide and slider, however no first linear guide or slider is claimed, this renders the claim vague and indefinite.
- 5. With regard to claims 6 and 12, it is unclear how the first (one) middle link can have a second length (b) and a third length (c).

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6. With regard to claim 16, it is unclear if the lengths (b) and (c) are the length of the fulcrum point or a length respect to the fulcrum point to some other point on a link

7. Claims 2 and 7 recite the limitation "said cycle (clm. 2, line 4; clm. 7, line 11)". There is no antecedent basis for these limitations in the claims.

#### Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 9. Claims 1-5, as best as can be understood, and claims 7-9 are rejected under 35
  U.S.C. 102(b) as being anticipated by Imanishi (5,848,568). Imanishi discloses a slide drive device for a press machine comprising a slide (3) having top and bottom dead center position (col. 5, lines 9, 10), an adjusting means for adjustment of a stroke (col. 4, lines 64-67 & col. 5, lines 1-6), adjusting means simultaneously adjusting top and bottom dead center positions (col. 5, lines 7-17), an adjusting means located at the same location on the press, driving means (8, 9, 12, 13, 21) transmitting a driving displacement to a first link, a first upper link (21) being connected to drive a slide in a cycle, a dynamically balancing means, a dynamic balancer (40) operably connected to a slide (3), a guiding means (7), a first horizontal link (45) operably connected to a slide (3), a crankshaft (12), a connecting rod (13) a first and second slider (14, 15), a first and second linear guide (4, 5).

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#### Claim Rejections - 35 USC § 103

10. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 13. Claim 6, as best as can be understood is rejected under 35 U.S.C. 103(a) as being unpatentable over Imanishi (5,848,568). Imanishi discloses a first upper link (21) having a length, a first middle link (47) having a length, a fulcrum pin (33) on a first middle link a third link (23) having a length. Imanishi does not disclose the relationship between the link lengths to be:

$$(a):(b)=(b):(c)$$

As to the relationship of the link lengths, at the time the invention was made, it would have been an obvious design modification to a person of ordinary skill in the art to have constructed to the links to have a length relationship of (a):(b)=(b):(c) because Applicant has not disclosed that such relationship provides an advantage, is used for a particular purpose, or solves a stated problem. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with links of equal and equal lengths as long as linear motion was transmitted to move the slide within the press vertically.

14. Claims 10-12 and 16-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Imanishi (5,848,568) in view of Yoshida (6,148,720). Imanishi disclose the use of a crankshaft having an eccentric portion (col. 4, lines 14-15). Imanishi does not disclose the use of a

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crankshaft having multiple eccentric portions. Yoshida teaches the use of a crankshaft having multiple eccentric portions (col. 1, lines 43-47) so as to change/adjust the slide in up and down positions. Because both references are from similar arts and deal with a similar problem (i.e. transmitting rotational movement to linear movement to vertically displace a press slide) it would have been obvious at the time of the invention to one having ordinary skill in the art to replace Imanishi's eccentric crankshaft with a crankshaft having two eccentric portions so as to move the slide vertically in a press.

- With regard to claim 11, Imanishi discloses a connection rod having small and large ends (col. 3, lines 64-67), wherein the large end is connected to one eccentric part of the crankshaft (col. 4, line 13-15), a small end attached to a driving means (col. 4, lines 10-12) whereby driving displacement is transmitted to a slide.
- 16. With regard to claim 12, Imanishi discloses a first upper link (21) having a length, a first middle link (47) having a length, a fulcrum pins (31, 33, 56) on a first middle link a third link (23) having a length. As noted above (para. 13), the link dimensions/relationship are clearly a matter of ordinary design consideration.
- 17. With regard to claim 16, as best as can be understood, Imanishi discloses a crankshaft (12) having a first eccentric (col. 4, lines14-15), a connecting rod (13) operably joined to an eccentric part (col. 4, lines 14-16), first, second upper links (21, 21'), fulcrum pins (31, 33), middle link (47), operably joined to a first upper link (21) via a pin (33) and middle link and upper link operably effecting transfer of driving displacement to a slide in a cycle (col. 4, lines 64-67 & col. 5, lines 1-6). Imanishi does not disclose the use of a crankshaft having first and second eccentric portions. Yoshida teaches the use of a crankshaft having multiple eccentric

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portions (col. 1, lines 43-47) so as to change/adjust the slide in up and down positions.

Additionally, Imanishi does not discloses a connection rod having a length (a), fulcrum point having a length (c) from a second end and a fulcrum point having a length (b) from a first end whereby the lengths are related by:

$$(a):(b)=(b):(c)$$

Because both references are from similar arts and deal with a similar problem (i.e. transmitting rotational movement to linear movement to vertically displace a press slide) it would have been obvious at the time of the invention to one having ordinary skill in the art to replace Imanishi's eccentric crankshaft with a crankshaft having two eccentric portions so as to move the slide vertically in a press. As to the connection rod and fulcrum point lengths, as noted above (para. 13), the link dimensions are clearly a matter or ordinary design consideration.

18. With regard to claim 17, Imanishi discloses slide drive device for a press machine comprising a slide (3) having top and bottom dead center position (col. 5, lines 9, 10), an adjusting means for adjustment of a stroke (col. 4, lines 64-67 & col. 5, lines 1-6), adjusting means simultaneously adjusting top and bottom dead center positions (col. 5, lines 7-17), a adjusting means located at the same location on the press, at least one of a first and second horizontal link (45) having a first and second end for receiving driving displacement at a second end and adjustment at a first end whereby the slide is adjusted and driven in a cycle (col. 4, lines 47-67 & col. 5, lines 1-24).

#### Allowable Subject Matter

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19. Claims 13, 14, 15 and 18 are objected to as being dependent upon a rejected base claim,

but would be allowable if rewritten in independent form including all of the limitations of the

base claim and any intervening claims and if the 35 U.S.C. 112 rejection were overcome.

Conclusion

20. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure Imanishi (JP 60180699) and Schockman (5,136,875).

21. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Shelley Self whose telephone number is (703) 305-5299. The

examiner can normally be reached Mon-Fri from 8:30am to 5:00pm. If attempts to reach the

examiner by telephone are unsuccessful, the examiner's Supervisor, Allen Ostrager can be

reached at (703) 308-3136. The fax phone numbers for the organization where this application

or proceeding is assigned are (703) 305-3579 for regular and After Final communications.

22. Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-1148.

SSelf

September 18, 2002

ALLEN OSTRAGER SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 3700